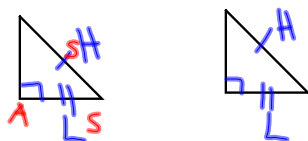


4-4 Prove Triangles Congruent by SAS and HL

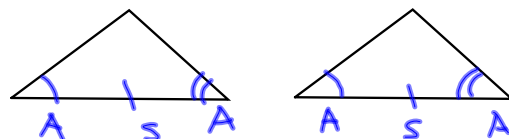
4-5 ASA and AAS

Theorem 4.5 HL (Hypotenuse-Leg)-If the hypotenuse and a leg of one right Δ are \cong to the hypotenuse and one leg of another right Δ , then the Δ s are \cong .



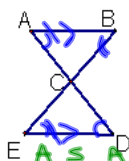
Nov 17-7:06 AM

Postulate 21 ASA-If 2 angles and the included side of one Δ are \cong to 2 angles and the included side of another triangle, then the triangles are \cong .



Nov 15-2:41 PM

Given: $\overline{AB} \parallel \overline{ED}$; $\overline{AB} \cong \overline{ED}$
Prove: $\Delta ABC \cong \Delta DEC$



<p>① \sim</p> <p>② $\angle A \cong \angle D$ $\angle B \cong \angle E$</p> <p>③ $\Delta ABC \cong \Delta DEC$</p>	<p>① Given</p> <p>② Alt. Int \angles Thm</p> <p>③ ASA</p>
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Nov 17-7:08 AM

Theorem 4.6 AAS-If 2 angles and a non-included side of one Δ are \cong to 2 angles and a non-included side of another Δ , then the Δ s are \cong .



Nov 17-7:08 AM

Given: $\angle K \cong \angle J$; $\overline{KL} \cong \overline{JM}$
 Prove: $\overline{LN} \cong \overline{MN}$

S. R.

① $\overline{LN} \cong \overline{LN}$	① Given
② $\angle N \cong \angle N$	② Refl.
③ $\triangle KLN \cong \triangle JMN$	③ AAS
④ $\overline{LN} \cong \overline{MN}$	④ CPCTC

"Corr. parts of $\cong \Delta$ s are \cong "

Nov 17-7:08 AM

Given: $\overline{WO} \parallel \overline{LD}$; R is the midpoint of \overline{WL}
 Prove: $\overline{OR} \cong \overline{DR}$

S. R.

① $\overline{WR} \cong \overline{RL}$	① Given
② $\angle W \cong \angle L$	② def of midpt
③ $\angle O \cong \angle D$	③ Alt int \angle thm
④ $\triangle WOR \cong \triangle LDR$	④ AAS
⑤ $\overline{OR} \cong \overline{DR}$	⑤ CPCTC

Nov 17-7:09 AM

HW
 p245-246 #s 35-37
 p252-255 #s 3-5, 7, 33, 34

Nov 15-2:58 PM